

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

What is claimed is:

1. (Previously presented): In a patient programmer, a method for patient-directed therapy management for a medical device comprised of:
  - accessing at least two preset clinician therapy programs stored in the medical device;
  - creating at least one personalized therapy program from the accessed preset clinician therapy programs;
  - storing the personalized therapy program in the medical device; and
  - executing at least one personalized therapy program.
2. (Original): The method for patient directed therapy management of claim 1 wherein the personalized therapy program comprises at least one personalized therapy program.
3. (Original): The method for patient directed therapy management of claim 2 wherein the personalized therapy settings are comprise of at least one of an amplitude, a rate, a pulse width, a pulse frequency, electrode polarities, or a directional sequence.
4. (Original): The method for patient directed therapy management of claim 2 wherein the patient programmer executes a personalized therapy algorithm.
5. (Original): The method for patient directed therapy management of claim 2 wherein the patient programmer executes a timing algorithm.

6. (Original): The method for patient directed therapy management claim 2 wherein the medical device and the patient programmer communicate via telemetry.
7. (Original): The method for patient directed therapy management of claim 2 wherein the medical device is an implantable neuro stimulator.
8. (Original): The method for patient directed therapy management claim 2 wherein the medical device is an external neuro stimulator.
- 101 9. (Previously amended): In a patient programmer, a method for patient-directed therapy management for a medical device comprised of:
  - accessing at least two preset clinician therapy programs stored in the medical device;
  - creating at least one personalized therapy program from the accessed preset clinician therapy programs, the personalized therapy program comprises at least one personalized therapy setting;
  - storing the personalized therapy program in the medical device;
  - executing at least one personalized therapy program; and
  - wherein the medical device is selected from the group consisting of a pacemaker, a defibrillator, a cochlear implant, an implantable diagnostic device, and an implantable pump.
10. (Withdrawn): A patient directed therapy management system comprising in combination:

a medical device comprising a telemetry block and memory with at least two preset clinician therapy programs; and

a patient programmer comprising a telemetry block, the patient programmer able to create at least one personalized therapy program from the at least two preset clinician therapy programs, the patient programmer further able to store and execute the at least one personalized therapy program in the medical device.

11. (Withdrawn): The patient directed therapy management system of claim 10 wherein the personalized therapy program comprises at least one personalized therapy settings.
12. (Withdrawn): The patient directed therapy management system of claim 11 wherein the personalized therapy settings are comprised of at least one of an amplitude, a rate, a pulse width, a pulse frequency, electrode polarities, or a directional sequence.
13. (Withdrawn): The patient directed therapy management system of claim 11 wherein the patient programmer executes a personalized therapy algorithm.
14. (Withdrawn): The patient directed therapy management system of claim 11 wherein the patient programmer executes a timing algorithm.
15. (Withdrawn): The patient directed therapy management system of claim 13 or 14 wherein the patient uses a graphical display screen and input medium to create and store the personalized therapy programs.

16. (Withdrawn): The patient directed therapy management system of claim 11 wherein the medical device and the patient programmer communicate via telemetry.
17. (Withdrawn): The patient directed therapy management system of claim 11 wherein the medical device is an implantable neuro stimulator.
18. (Withdrawn): The patient directed therapy management system of claim 11 wherein the medical device is an external neuro stimulator.
19. (Withdrawn): A patient directed therapy management system comprising in combination:
  - a medical device comprising a telemetry block and memory with at least two preset clinician therapy programs;
  - a patient programmer comprising a telemetry block, the patient programmer able to allow creation of at least one personalized therapy program from the at least two preset clinician therapy programs, and storage and execution of the at least one personalized therapy program in the medical device, wherein the personalized therapy program comprises at least one personalized therapy setting: and.
  - wherein the medical device is selected from the group consisting of a pacemaker, a defibrillator, a cochlear implant, an implantable diagnostic device, and an implantable pump.

20. (Withdrawn): A patient programmer for patient directed therapy management comprising in combination:
- an input medium;
  - a telemetry block; and
  - a controller able to create at least one personalized therapy program from at least two preset clinician therapy programs, the controller able to store the at least one personalized therapy program in a medical device.
21. (Withdrawn): The patient programmer of claim 20 wherein the personalized therapy program comprises at least one personalized therapy setting.
22. (Withdrawn): The patient programmer of claim 21 wherein the personalized therapy setting are comprised of at least one of an amplitude, a rate pulse width, a pulse frequency, electrode polarities, or a directional sequence.
23. (Withdrawn): The patient programmer of claim 21 wherein the personalized therapy program executed by the patient programmer comprises a personalized therapy algorithm.
24. (Withdrawn): The patient programmer of claim 21 wherein the personalized therapy program comprises a timing algorithm.
25. (Withdrawn): The patient programmer of claim 23 or 24 wherein the patient uses a

graphical screen interface and input medium to create and store the personalized therapy programs.

26. (Withdrawn): The patient programmer of claim 21 wherein the medical device and the patient programmer communicate via telemetry.
27. (Withdrawn): The patient programmer of claim 21 wherein the medical device is an implantable neuro stimulator.
28. (Withdrawn): The patient directed therapy management system of claim 21 wherein the medical device is an external neuro stimulator.
29. (Withdrawn): A patient programmer for patient directed therapy management comprising in combination:
  - an input medium;
  - a telemetry block;
  - a controller able to create at least one personalized therapy program from at least two preset clinician therapy programs, the controller able to store the at least one personalized therapy program in a medical device, the personalized therapy program comprising at least one personalized therapy setting; and wherein the medical device is a medical device selected from a group consisting of a pacemaker, defibrillator, a cochlear implant, an implantable diagnostic devices, and an implantable pump.
30. (Withdrawn): A patient programmer comprising:

an input medium;

a programming means, connected to the input medium, for creating at least one personalized therapy program from at least two preset clinician therapy programs; and

a communication means, connected to the programming means, for storing and executing at least one personalized therapy program in a medical device.

31. (Withdrawn): A patient programmer for patient directed therapy management comprising in combination:

an input medium for receiving a plurality of personalized therapy settings from a patient, wherein each personal therapy setting provide settings for a plurality of parameters of a therapy program selected from the group consisting of an amplitude, a pulse rate, a pulse width, a pulse frequency, an electrode polarity, and a directional sequence;

a telemetry block; and

a controller able to create a personalized therapy program for each personalized therapy setting received from the patient and cause the personalized therapy programs to be stored in a medical device via the telemetry block, wherein the patient can subsequently instruct the medical device via the patient programmer to provide therapy to the patient in accordance with one of the personalized therapy programs or a preset clinician therapy program.

32. (Withdrawn): The patient programmer of claim 31 wherein the controller executes a personalized therapy algorithm.

33. (Withdrawn): The patient programmer of claim 31 wherein the controller executes a timing algorithm.
34. (Withdrawn): The patient programmer of claim 31 wherein the input medium is a graphical screen interface to create the personalized therapy program.
35. (Withdrawn): The patient programmer of claim 31 wherein the telemetry block is capable of communicating with an implantable neuro stimulator.
36. (Withdrawn): The patient directed therapy management system of claim 31 wherein the telemetry block is capable of communicating with an external neuro stimulator.
37. (Withdrawn): The patient programmer of claim 31 wherein the personalized therapy program is based on the patient's activity.
38. (Withdrawn): The patient programmer of claim 31 wherein the personalized therapy program is based on a time of day.
39. (Withdrawn): The patient programmer of claim 38 wherein the controller is capable of programming the implanted device to provide therapy to the patient in accordance with the personalized therapy program associated with the particular time of day.



40. (New): In a patient programmer, a method for patient-directed therapy management for a medical device, the method comprising the steps of:

communicating with the medical device using telemetry through a telemetry block of the patient programmer;

accessing at least two preset clinician therapy programs stored in the medical device;

creating at least one personalized therapy program from the accessed preset clinician therapy programs, the personalized therapy program comprising at least one personalized therapy setting;

communicating the personalized therapy program to the medical device; and

storing the personalized therapy program in the medical device.

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41. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises an amplitude.

42. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises a pulse rate.

43. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises pulse width.

44. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises a pulse frequency.

45. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises electrode polarities.
  46. (New): The method for patient directed therapy management of claim 40 wherein the at least one personalized therapy setting comprises a directional sequence.
  47. (New): The method for patient directed therapy management of claim 40 wherein the medical device is an implantable neuro stimulator.
  48. (New): The method for patient directed therapy management claim 40 wherein the medical device is an external neuro stimulator.
  49. (New): The method for patient directed therapy management of claim 40 wherein the medical device is selected from the group consisting of a pacemaker, a defibrillator, a cochlear implant, an implantable diagnostic device, and an implantable pump.
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